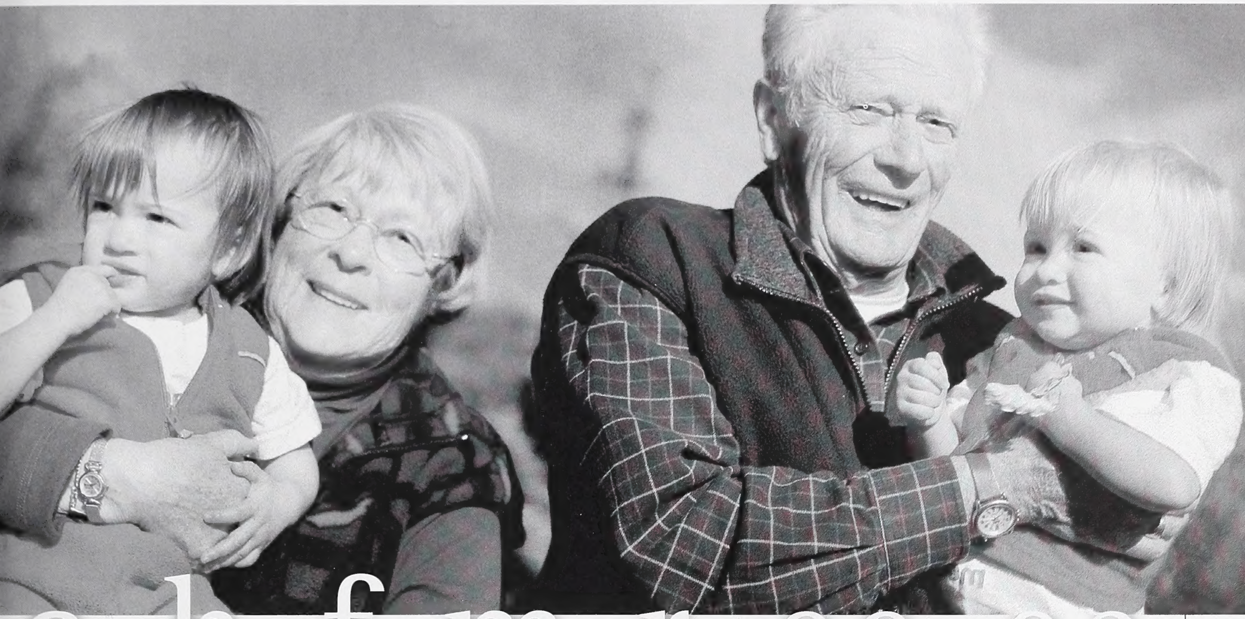

ahfmr 99-02

Alberta Heritage Foundation for Medical Research

Triennial Report

ahfmr mission

AHFMR supports a community of researchers who generate knowledge that improves the health and quality of life of Albertans and people throughout the world. AHFMR's long-term commitment is to fund basic, patient, and health research in all fields based on international standards of excellence and carried out by new and established investigators and researchers in training.

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What is our endowment?

The Alberta Heritage Foundation for Medical Research Endowment Fund was established in 1980 to finance the objectives of the Foundation–to establish a long-term program of medical and health research in the Province. The Fund operates under the authority of the Alberta Heritage Foundation for Medical Research Act. The initial investment was $300 million.

How is it managed?

The investment policy was developed over a number of years by Alberta Revenue with input from the AHFMR Board. The investment policy takes into account the expected conditions in the capital markets, the need for appropriate investments, and a sustainable longer term spending program by the Foundation. The investment strategy is managed by the Investment Management Division of Alberta Revenue. The fund contains a diversified portfolio of investments in domestic and foreign markets.

DR. JEFFREY KLEIM is investigating brain structure and function, particularly as it relates to strokes. Following a stroke, the tissue surrounding the damaged area attempts to take over the function of the damaged tissue. However this tissue often dies, reducing recovery. Dr. Kleim hopes to identify neuroprotective drugs that can stop this secondary tissue loss.

How do we decide how much we need to support our programs each year?

AHFMR management develops long range projections, based on Trustee decisions about maintaining current programs and developing new ones. These projections reflect the direct cost for each program, related costs and the anticipated value of the endowment. Annual budgets are then developed from these long-range projections.

Why do actual expenditures sometimes vary from the budget?

Budgets are based on estimates of quality and number of applications for programs and the results of the review process. Actual expenditures may vary from the budget, depending on the quality and number of applications received and approved, and the number of awards accepted. (Excellence is the primary criteria for funding proposals.) In addition, the Foundation responds to needs as they arise in the community and unforeseen opportunities may result in increased spending.

Calgary Health Region's **DR. MAEVE O'BEIRNE** is bringing a new vision of research and medical practice to Alberta. Through her involvement in the Alberta Family Practice Research Network – a network of family physicians devoted to improving the care of patients through research – and the SEARCH program – which trains people in applied health research – she is both fostering and participating in primary care research in Alberta. Her research projects have included studies on the use of certain therapies as a complement or alternative to conventional Western medical treatment. She has also investigated a number of issues that affect the practice of family medicine in rural areas. These include research on access to child mental health services and the effects of 24-hour on-call duties.

How do we determine how much to transfer from the endowment to cover our budget?

Foundation management works with Alberta Revenue in developing long term investment forecasts and strategies to ensure sufficient cash to fund current operations, while maintaining the value of the endowment by providing sufficient reinvestment of income to ensure future commitments can be met. To provide this balance between current needs and long term goals, the Trustees have adopted a guideline for how much can be transferred each year. This guideline recognizes that annual income to the endowment could vary drastically, depending on the performance of financial markets in which investments are made. To protect the programs of research from suffering dramatic cutbacks should there be years of significant poor returns, the guideline has two components.

The suggested maximum transferable to the Foundation from the endowment in any year is 70% of the previous year's expenditures, plus 30% of 5% of the opening balance of the endowment. This is a variation of the commonly used 5% rule for endowments which states that, to fund current programs and maintain the potential to fund into the future, only 5% of the value of an endowment should be spent annually.

What is the investment strategy for the endowment?

Due to these relatively high cash requirements to fund annual expenditures, the portfolio is structured to generate a high level of current income with a high degree of certainty. The current portfolio provides for the spending requirements plus growth to cover inflation, with a reasonable margin of safety. In order to generate this income, Alberta Revenue has developed policy benchmarks for investments in fixed income and equities. The policy benchmarks are currently 30% fixed income and 70% equity.

How is Fund performance evaluated?

The Investment Management Division Strategy Committee of Alberta Revenue regularly reviews and benchmarks asset classes, and monitors the performance of fund managers, Alberta Revenue meets regularly with Foundation management, and reports fund performance to AHFMR Trustees.

How does the AHFMR decide whom to fund?

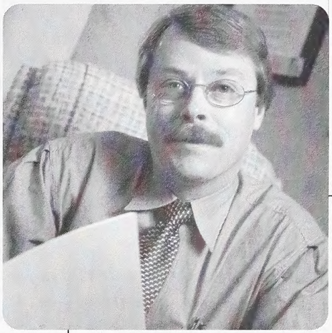
All final decisions about people and projects supported by AHFMR are made by the Trustees. They must weigh the mandate–to support a balanced long-term program of research that meets standards of excellence–against available income, a portion which must be added to the endowment to conserve purchasing power for the future.

Who advises the Trustees?

The AHFMR Board of Trustees and executive rely on advice from many people in the international, national, and provincial medical and health research, and financial communities.

Members of the AHFMR Scientific Advisory Council advise on major applications and policy decisions related to research. Other scientists and stakeholders in research, education and health serve on AHFMR Committees or as consultants. The Foundation has numerous peer-review and/or advisory committees for various programs.

Through interaction with Alberta Revenue who manages the endowment, AHFMR has access to a wide range of information, research and advice on the long term impact of current expenditures on the value of the endowment into the future.



DR. JOHN ROBINSON is studying sexuality and sexual functioning following treatment for gynecological cancers. His research team has found that psychological recovery is every bit as important to sexuality as is physical recovery, and that small group settings are the most effective method to provide counseling and information.

How are the applications for funding evaluated?

AHFMR follows the established procedure of evaluating applications by a peer review system, whereby applications are evaluated and rated by other researchers and/or users of health research information who have expert knowledge in each applicant's field of study. These include external reviewers who may be working in any part of the world, as well as internal AHFMR committees with representatives from universities and hospitals in Alberta and throughout North America. These peer review committees then forward their evaluations and recommendations to the Trustees.

How do successful candidates receive their funding?

For Personnel grants, host organizations–universities, hospitals, health regions–sponsor applications on behalf of researchers they have recruited or are in the process of recruiting. AHFMR reimburses the host organization for a portion of the salary, benefits and research costs of the researchers. For project-based grants, funding is paid directly to the applicant or an administering organization as appropriate.

Award Programs of the Foundation

A particular interest of rheumatologist DR. WALTER MAKSYMOWYCH is ankylosing spondylitis, a painful inflammation of the joints and ligaments of the spine. Until recently there were no treatments to stop the progress of this disease, which affects people in their 20s and 30s. Now, prospects are much improved because of research discoveries – many made in Alberta.

Heritage Scientists

Heritage Scientists are internationally recognized for the excellence of their scientific contributions. This award encourages the recruitment and establishment of senior medical and health scientists who provide leadership in Alberta's scientific community. It is awarded for five years and is renewable.

Heritage Senior Scholars

This award assures the continued recruitment and establishment of exceptional investigators in areas relevant to medical and health research. Candidates must hold an M.D., D.D.S., D.V.M., Ph.D. or equivalent degree and have a solid record of excellence in independent research over several years as a faculty member. The candidate must also show an interest in training Alberta's future research scientists. This five-year award is non-renewable.

Heritage Scholars

Candidates are investigators who have recently completed their post-doctoral research training and demonstrate the ability to initiate and conduct independent as well as collaborative research. Heritage Scholars exhibit a desire and ability in training future research scientists. This non-renewable five-year award ensures the continuing growth of Alberta's scientific community.

Heritage Clinical Investigators

This award plays an important role in linking basic research to patient-based research and patient care. It allows a clinically qualified investigator, holding an M.D. or D.D.S. and full-time academic appointments in a sponsoring institution, to further their research experience, with the mentorship of competitively funded basic or clinical researchers. An investigator must have completed two to three years of supervised medical research training prior to taking up this award. This three-year award is renewable and may be extended for another three years.

Heritage Population Health Investigators

The Heritage Population Health Investigator encourages the recruitment and establishment of skilled investigators in the fields of population health, quantitative and population sciences, health services, social and behavioural sciences, and the humanities, with a view to establishing Alberta as a centre of excellence in these fields. Applicants who have recently completed post-doctoral (M.D. or Ph.D.) research training, but who have not yet established an independent research record are eligible for this three-year, renewable award, which gives investigators an opportunity to further their research experience with the aid of a mentor.

Heritage Independent Establishment Grants for New Investigators

Grants are provided to new investigators who are not already funded by the Foundation, providing equipment, and material and technical assistance to help them achieve their goals and increase their research productivity.

Heritage Fellowships

These fellowships allow qualified candidates wishing to pursue a career in medical or health-related research to acquire post-doctoral research training (full- or part-time) in an area of health science relevant to the aims of the Foundation. Candidates must demonstrate high academic standing and research ability, and be sponsored by a faculty supervisor.

Heritage Clinical Fellowships

This program is directed toward individuals who hold an M.D. or D.D.S. degree and have completed or are near completion of subspecialty clinical training, providing them with the opportunity to pursue a career in health related or clinical research in Alberta. Applicants must be sponsored by a faculty member who has a record of productive research and who agrees to act as supervisor for the Clinical Fellow. Applicants are required to undertake a minimum of two years of full-time research.

Heritage Health Research Career Renewal Awards

Alberta faculty members who demonstrate interest in clinical or health research are given an opportunity to acquire rigorous new skills in epidemiology, biostatistics, psychosocial sciences, or clinical experimental methods and design. The program is intended to catalyze increased development of clinical and health research activities and the design of patient-based or population-oriented research in Alberta. This one-year award is renewable for a further year.

Developing new and efficient ways to analyze and interpret healthcare data while protecting patient privacy is the focus of DR. KEUMHEE CARRIÈRE'S research. She is part of a team working to develop mathematical methods of collecting and interpreting administrative data that are used by decision-makers to direct healthcare spending and services.

Heritage Studentships

The Foundation provides full-time, part-time and summer Studentships in all areas of health research. Full-time or part-time Studentships are available for students who are either working towards health related professional degrees or who are interested in pursuing a career in medical or health related research. Summer Studentships provide the opportunity for students with exceptional academic records to participate directly in health-related research in Alberta, encouraging them to consider formal training and a career in health research.

Heritage M.D./Ph.D. Trainees

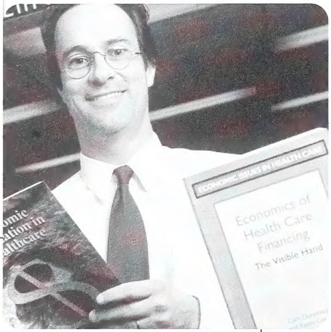
Exceptional candidates interested in pursuing a career as clinician scientists are offered the opportunity to study for the M.D. and the Ph.D. degrees simultaneously. Foundation support is complementary to the formal M.D./Ph.D. programs at the University of Alberta and the University of Calgary.

Dr. Lionel E. McLeod Health Research Scholarship

The scholarship was established in the memory of Dr. Lionel E. McLeod, who was head of Endocrinology at the University of Alberta, Dean of Medicine at the University of Calgary, and the founding President of the Alberta Heritage Foundation for Medical Research from 1981-1990. The award is given each year to an outstanding student at the Universities of Alberta, Calgary, or British Columbia for full-time research that is relevant to human health.

Heritage Major Equipment Grants

Grants for Major Equipment allow the investigators to purchase equipment that is essential to maintaining the high quality of their research.



When DR. CAM DONALDSON began studying health economics as a university student, the field was anything but mainstream. Now, the area of health economics is burgeoning and Dr. Donaldson is a leader. His research aims to provide the economic framework for health regions in Alberta to set budgets that optimize the services they provide.

Heritage Institutional Support Programs

Various Institutional Support programs aid Alberta's research community in accessing the most up-to-date information and technical developments in medical and health-related research. Programs such as the Heritage Visiting Lecturer, Heritage Visiting Professorships, Heritage Visiting Scientists, as well as funding for conferences and workshops, retreats, or planning sessions provide important information and resources necessary to the continuing development of modern health research in Alberta.

AHFMR Technology Commercialization (TC) Program

The Technology Commercialization program promotes the collaboration between research and industry and funds the commercialization of medical innovations so that new technology can aid in improving healthcare. Technology Commercialization provides funding in three phases for commercially promising projects that do not fall under the mandate of agencies that traditionally fund medical research funding agencies or are not developed adequately to attract outside investors. The program also receives funding by a provincial government Medical Innovation Program grant.

Heritage Youth Researcher Summer Program (HYRS)

The Heritage Youth Researcher Summer (HYRS) Program was developed and funded by AHFMR, and modeled, in part, on the on-going WISEST Summer Research Program at the University of Alberta. HYRS matches top-notch Heritage and other university researchers with exceptional Grade 11 students from around the province for a hands-on research experience, to introduce them to the research world and the many exciting careers available in the field.

Health Research Fund

The Health Research Fund (HRF) is administered by AHFMR on behalf of Alberta Health and Wellness. It is intended to provide funding for relevant, high quality health research across broad areas of health services research, population health research, including mental health research, and health technology assessment research. This research is essential to sustain the goals of the Health Research Agenda developed by AHFMR through the broad consultation and deliberation of its Health Research Advisory Committee.

Heritage Community Health Research Visiting Lecturer Program

This program assists Alberta organizations in attracting outstanding health researchers to the province. These visiting lecturers and/or consultants will broaden and enrich the research experience of investigators, administrators, and trainees by enabling them, individually or in groups, to discuss their health research with outside experts.

DR. WILLIAM BROOK'S research is focussed on the molecular mechanisms involved in limb development. Using fruit-fly tissues, he studies how simple embryonic cells turn into complicated structures like legs and wings. As it turns out, many of the cellular pathways that control limb development in fruit flies also play a role in human diseases like cancer.

Heritage Community Health Research Travel Grant Program

Travel Grants are intended to enhance the quality of health research in Alberta by facilitating contacts between Alberta health researchers, as well as with their national and international colleagues.

AHFMR Opportunity Fund

The purpose of the AHFMR Opportunity Fund (AOF) is to provide investigators from Alberta institutions (universities and regional health authorities) with a partnership opportunity to match research funding from the Canadian Health Services Research Foundation's Open Grants Competition.

AHFMR Challenge Offer

The unique AHFMR Challenge Offer proposes to contribute up to $45 million or up to the equivalent of 20%, whatever is less, of the total province-wide costs of building new health research-related facilities at the Universities of Alberta, Calgary, and Lethbridge. A stipulation of the Challenge Offer requires the universities to successfully raise the remaining funds from other sources.

Canada Research Chairs/ AHFMR Partnership

AHFMR supports Foundation personnel who also receive Canada Research Chair funding with an incentive award equal to 30% of the net amount of the CRC Award and/or a contribution to the CFI component of the Chair. CRC researchers can also access matching funds for their CFI allocation through AHFMR Establishment Grants, Major Equipment or Special Initiative Grants. The AHFMR/CRC Incentive is provided to the faculty of the researcher's major appointment, where it is distributed at the discretion of the faculty and the institution, with prior disclosure to AHFMR.

AHFMR Research Prize

The AHFMR Research Prize is intended to maintain and improve AHFMR Personnel awards as potent vehicles for the recruitment and retention of highly qualified internationally competitive investigators at Alberta institutions. The Research Prize is automatically awarded annually to all investigators receiving unconditional AHFMR personnel awards. The Research Prize is $10,000 or $20,000 annually depending on the nature of the investigator's current AHFMR award and by the number of previous AHFMR awards received.

Neuroscientist **DR. TESSA GORDON** is studying the regeneration of nerves following injury. Nerves attempt to grow new connections to regain function but the process can take over a year. As a result, nerve repair often bogs down and fails. Dr. Gordon is studying how the process is regulated, with the goal of improving patient outcomes.

Major Funding Partners

The Alberta Heritage Foundation for Medical Research has granted more than $700 million to support health research in Alberta. The Foundation and the Alberta research community rely heavily on the contributions of many partners to build and sustain health research in the province. It is estimated that for every Heritage dollar invested, AHFMR researchers attract $2-3 in outside funding.

The focus of DR. JIM MCGHEE'S research is a simple worm, C. elegans, which he studies to gain insight into biology and biochemistry. With many of the features of higher organisms, the tiny worm consists of less than 1000 cells, and grows from fertilized egg to adult in just four days – a unique window on development.

A major funding partner in the Heritage health research enterprise in Alberta is the federal government through its major granting agencies: the Canadian Institutes of Health Research, the National Science and Engineering Research Council, the Social Sciences and Humanities Research Council, the Canadian Health Services Research Foundation, the Canada Foundation for Innovation, and Industry Canada.

The Government of Alberta, through a number of ministries, health regions, departments, and programs, is also a significant partner in AHFMR's endeavours to develop the health research capacity provincially.

The University of Alberta, the University of Calgary, and the University of Lethbridge are key partners with AHFMR in the realization of health research excellence in the classroom, laboratory and at the bedside.

Voluntary funding agencies represent the hope of millions. Their contributions to the work of AHFMR funded researchers are helping to turn hope into realization. The Canadian Heart and Stroke Foundation, the Juvenile Diabetes Foundation, the National Cancer Institutes of Canada and others are valuable allies and agents for better health.

Pharmaceutical companies individually or through the Pharmaceutical Manufacturers Association of Canada are committed to investing in the excellence that AHFMR-funded research delivers.

International funding partners increasingly contribute to Heritage-funded research and include the Whitaker Foundation, the National Institutes of Health, the Wellcome Trust, and many other agencies.

To these partners and to all teachers, politicians, members of the media, and the public whose interest in, and support of, Heritage health research activities have helped us spread the story of AHFMR successes, we thank you and look forward to working with you in the years to come.

Funding Scenarios

It is estimated that for every Heritage dollar invested in provincial health research, $1-3 are attracted from outside sources. This vital leveraging effect is illustrated in some examples below.

The Joint Injury and Arthritis Research Group – University of Calgary

The Joint Injury and Arthritis Research Group at the University of Calgary is composed of six Heritage funded senior researchers. AHFMR invested over $2 million in the group's research from 1999 to 2002 and in turn the members doubled the Heritage investment by attracting more than $4 million in outside funding. The group's six members have been supported by AHFMR for a total of 61 person-years.

Perinatal Group – University of Alberta

Edmonton is home to the Perinatal Research Centre, a top ranked multidisciplinary research group based at the University of Alberta and the Royal Alexandra Hospital. From 1999 to 2002 the Centre received over $6 million in AHFMR funding and has attracted $10.25 million in outside funding. The Centre's 13 senior researchers have been supported by AHFMR for a total of 86 person-years,

Medical Genetics – University of Alberta

The Medical Genetics Group at the University of Alberta has received over $2.5 million in AHFMR funding and has more than tripled that investment with nearly $8 million in outside investment. The Group's ten senior researchers have been supported for a total of 41 person-years by AHFMR funding.

Smooth Muscle Research Group – University of Calgary

The 16 member smooth muscle research group conducts basic research that has implications for new knowledge in heart function. The group has received nearly $3 million in AHFMR funding in 2001/2002 and have attracted another $4 million more in outside dollars. The group's members have been supported for a total of 141 person-years by AHFMR funding.

Diabetes

AHFMR has awarded more than $18.5 million over the past 22 years to diabetes researchers at the University of Alberta and the University of Calgary.

Cancer

AHFMR has awarded approximately $28 million over the past 22 years to support basic biomedical research related to cancer.

Heart

AHFMR has invested more than $33 million in cardiac researchers in the province over the past 22 years.

DARIA WALLSTEN is one of five people from the Keeweetinok Lakes Regional Health Authority who have attended the SEARCH program, which trains people in applied health research. "The program helped us develop a research capacity to truly understand the population we serve," says Wallsten. "The objective is to make informed decisions about the services we deliver."

AHFMR People Programs

Over 770 people supported as of March 31, 2002

LEGEND

TC – Technology Commercialization Program

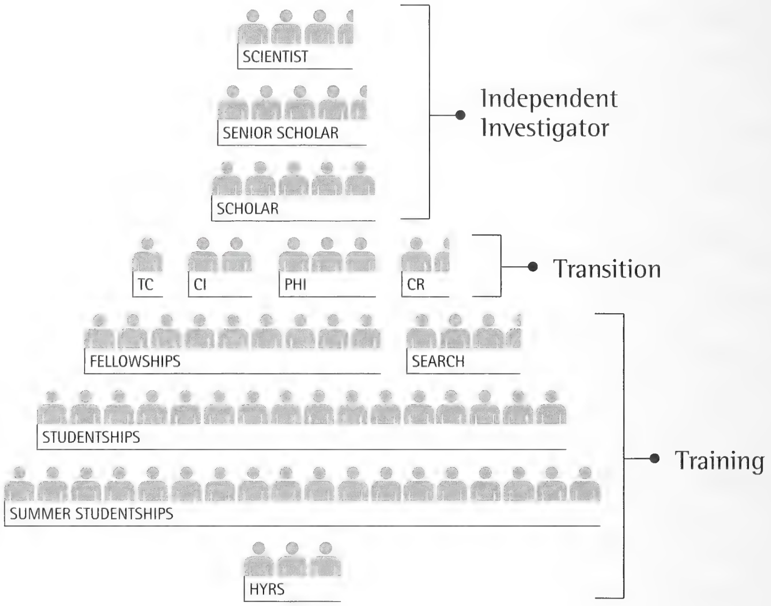
CI – Clinical Investigators

PHI – Population Health Investigators

CR – Career Renewal

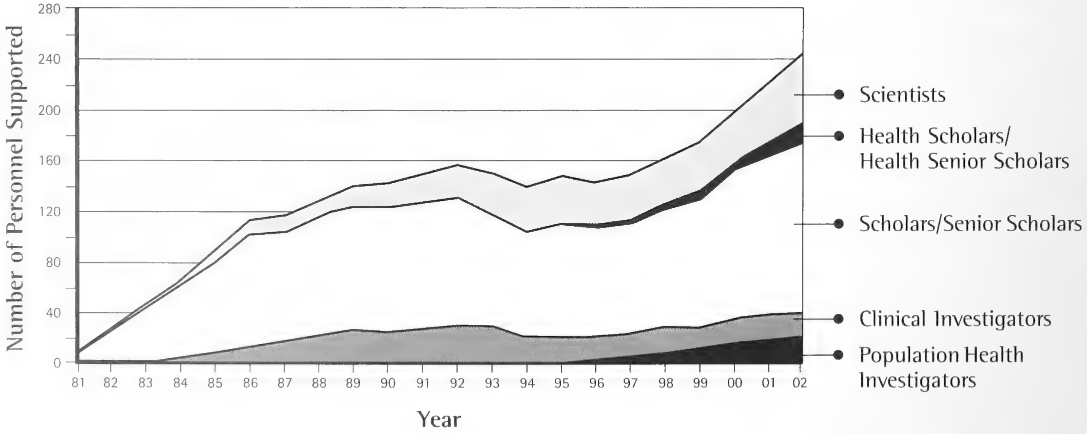
SEARCH – Swift Efficient Application of Research in Community Health

HYRS – Heritage Youth Researcher Summer Program



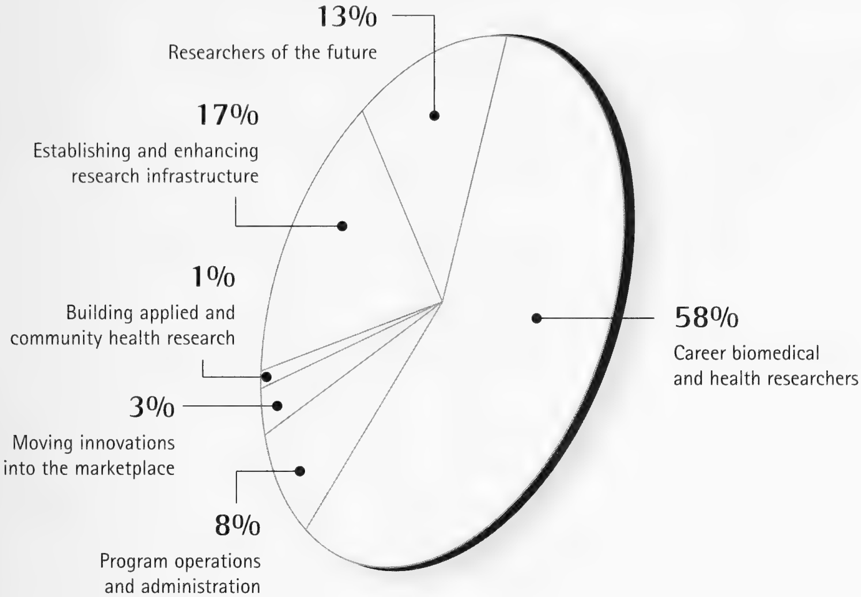
Personnel Awards 1981-2002

Includes Personnel Awards as of July 1, 2002



Total Program Spending

$158,323,360 invested directly into health research from 1999/2002.



Financial Summary

(Unconsolidated)*

Years	1999/2000	2000/2001	2001/2002
Revenue	$ 43,831,120	$ 53,409,894	$ 60,010,682
Grants & Awards	40,834,148	47,615,992	54,005,448
Program Delivery, Operations & Administration	4,574,130	5,197,228	6,096,414
Excess of revenue over expenditure	**$ (1,577,158)**	**$ 596,674**	**$ (91,180)**

*The above does not include the Alberta Foundation for Health Research

Success Rates for AHFMR Grants and Awards/Programs

The results are expressed as a number of applications approved/number of applications received; followed by the percentage success rate.

COMPETITION	1999/2000		2000/2001		2001/2002	
TRAINING AWARDS						
HERITAGE YOUTH RESEARCHER SUMMER (HYRS)	30/247	12%	42/154	27%	45/170	26%
SUMMER STUDENTS	218/379	58%	202/363	56%	200/412	49%
STUDENTS	83/334	25%	75/183	27%	73/266	27%
FELLOWS	47/142	33%	37/105	35%	38/104	37%
SENIOR INVESTIGATOR (BIOMEDICAL/CLINICAL) AWARDS						
CLINICAL INVESTIGATOR	7/10	70%	6/8	75%	6/9	67%
INDEPENDENT ESTABLISHMENT	1/4	25%	1/8	13%	1/6	17%
SCHOLAR	22/31	71%	20/39	51%	17/38	45%
SENIOR SCHOLAR	14/17	82%	11/15	73%	13/11	85%
SCIENTIST	7/11	64%	14/21	67%	10/18	56%
SENIOR INVESTIGATOR (HEALTH) AWARDS						
POPULATION HEALTH INVESTIGATOR	7/10	70%	6/12	50%	9/19	47%
HEALTH INDEPENDENT ESTABLISHMENT	3/3	100%	1/1	100%	2/2	100%
HEALTH SCHOLAR	1/3	33%	3/6	50%	4/7	57%
HEALTH SENIOR SCHOLAR	0/0	0%	2/2	100%	0/1	0%
HEALTH SCIENTIST	0/0	0%	0/1	0%	1/2	50%

COMPETITION	1999/2000		2000/2001		2001/2002	
OTHER PROGRAMS						
MAJOR EQUIPMENT	32/49	65%	36/74	49%	36/62	58%
HEALTH RESEARCH FUND	21/40	53%	24/45	53%	16/32	50%
CONFERENCE GRANTS	24/25	96%	35/38	92%	26/29	90%
COMMUNITY HEALTH VISITING PROGRAMS	7/8	88%	13/13	100%	7/8	88%
	524/1313	**40%**	**528/1088**	**49%**	**488/1196**	**41%**

Trainee applications/awards include Biomedical, Clinical, MD/PhD and Health Research.

Each year, for its senior personnel awards competitions and for the Health Research Fund, AHFMR received over 550 external reviews of applications, which were considered by more than 50 members of 7 review committees who advised the Foundation on these programs.

Applications for Trainee awards were considered by over 30 different members of 5 review committees.

Funding details of the Technology Commercialization Program

*Includes University spin-off companies that applied independently.

1999/2000

In 1999/2000, funding was provided in six areas: Drugs, Health Informatics, Medical Devices, Medical Research Technology, Non-drug Therapies, and Internship/Training for a total of $920,127.

2000/2001

In 2000/2001, the dollar amount increased 8% to $992,123. The projects were funded in seven areas: Drugs, Health Informatics, Medical Devices, Medical Research Technology, Non-drug Therapies, Diagnostics, and Internship/Training.

2001/2002

In 2001/2002, the dollar amount increased 135% to $2,328,040. The projects were funded in eight areas: Drugs, Health Informatics, Medical Devices, Medical Research Technology, Non-drug Therapies, Diagnostics, Internship/Training, and Special Initiatives.

TCP (applications received/approved)

1999/2000: 35/17

2000/2001: 32/19

2001/2002: 25/10

AHFMR Advisory Committee Memberships 2001-2002

A decision to go back to school in mid-career is often difficult, but DR. DAVID MOORES leapt at the opportunity. Supported by an AHFMR Career Renewal award, the Chair of Family Medicine at the University of Alberta took a one-year administrative leave to study health services primary care research.

*Denotes members who started after April 1, 2001 and before March 31, 2002

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AHFMR Peer Review Committee Memberships 2001-2002

*Denotes members who started after April 1, 2001 and before March 31, 2002

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Edmonton, Alberta

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Alberta Mental Health Board
Calgary, Alberta

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Wetaskiwin, Alberta

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Calgary, Alberta

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Calgary, Alberta

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Toronto, Ontario

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Edmonton, Alberta

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Toronto, Ontario

Dr. Steven Mink
St. Boniface General Hospital
Winnipeg, Manitoba

Dr. A. Jonathan Stoessl
University of British Columbia
Vancouver, British Columbia

Dr. Simon Wing*
McGill University
Montreal, Quebec

A major research area for lawyer TIM CAULFIELD involves genetics, ethics and the law. Do we have a moral responsibility to know our genetic condition? To warn family members of their susceptibility...even if there is no cure for the condition? These are some of the issues Caulfield wants Canadians to discuss.

Gene therapy is a valuable research tool for DR. JOHN ELLIOTT. He is using the technique to try and develop early blood tests for Type 1 diabetes and multiple sclerosis. In the future, such early detection techniques may halt the progression of these diseases before they do their damage.

Community Health Travel Grant Committee

Dr. Colleen Maxwell
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Ms. Daria Wallsten
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Calgary, Alberta

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Calgary, Alberta

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Edmonton, Alberta

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Ecole Notre Dame High School
Red Deer, Alberta

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Saskatoon, Saskatchewan

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Vancouver, British Columbia

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McMaster University
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Montreal, Quebec

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Victoria, British Columbia

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Winnipeg, Manitoba

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McGill University
Montreal, Quebec

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Dr. David Lillicrap
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Kingston, Ontario

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University of Toronto
Toronto, Ontario

Dr. Dixie Lee Mager
B.C. Cancer Research Centre
Vancouver, British Columbia

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Calgary, Alberta

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Health Sciences Utilization & Research Consortium
Saskatoon, Saskatchewan

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Edmonton, Alberta

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Calgary, Alberta

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University of Alberta
Edmonton, Alberta

Dr. Jeffrey Kleim
University of Lethbridge
Lethbridge, Alberta

Dr. Gregory Korbutt*
University of Alberta
Edmonton, Alberta

Dr. Phyllis LuValle
University of Calgary
Calgary, Alberta

Dr. Wallace MacNaughton
University of Calgary
Calgary, Alberta

DR. DELE DAVIES and his colleagues are developing a vaccine for Group B streptococcus, a leading cause of serious infection in newborns that is passed from mother to child at birth. Antibiotics are currently used for prevention, but antibiotic resistance will develop, so Dr. Davies sees vaccination as a better long-term solution.

Motor units, the basic building blocks of muscle, are the focus of DR. MING CHAN'S research. He is interested in what happens in post-polio syndrome and whether the delayed muscle weakness is somehow related to exercise. He is also researching the relationship between exercise and muscle fatigue in the elderly.

Dr. Kamala Patel
University of Calgary
Calgary, Alberta

Dr. Derrick Rancourt*
University of Calgary
Calgary, Alberta

Dr. Steven Zimmerly*
University of Calgary
Calgary, Alberta

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Dr. Michael Schultz
University of Alberta
Edmonton, Alberta

Dr. Douglas Storey
University of Calgary
Calgary, Alberta

Dr. Lee Anne Tibbles*
University of Calgary
Calgary, Alberta

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Dr. Bruce McDonald – Chair
Manitoba Health
Research Council
Winnipeg, Manitoba

Dr. Lorne Babiuk
Veterinary Infectious
Diseases Organization
Saskatoon, Saskatchewan

Mr. Paul Geyer
Medical Ventures Corporation
Richmond, British Columbia

Dr. Martin Gleave*
Jack Bell Research Centre
Vancouver, British Columbia

Mr. Harley Hotchkiss
Spartan Resources Ltd.
Calgary, Alberta

Mr. David Kitchen
Calgary, Alberta

Dr. Peter Macklem
Inspiraplex
Montreal, Quebec

AHFMR Applied Health Research Advisory Committee Memberships 2001-2002

*Denotes members who started after April 1, 2001 and before March 31, 2002

Alberta Consultative Health Research Network

Dr. Howard Abrams
The Toronto Hospital
Toronto, Ontario

Dr. Larry Chambers
Inst on Health of the Elderly
Ottawa, Ontario

Ms. Kelly Deis
University of Alberta
Edmonton, Alberta

Dr. Wayne Elford
University of Calgary
Calgary, Alberta

Ms. Bette Gray
Gray & Associates
Stony Plain, Alberta

Dr. Paul Hasselback
Chinook Health Region
Lethbridge, Alberta

Dr. Stewart McMillan
Regina, Saskatchewan

Dr. Tom Noseworthy
University of Calgary
Calgary, Alberta

Dr. Kerrie Pain
Foothills Medical Centre
Calgary, Alberta

Dr. Lloyd Sutherland
University of Calgary
Calgary, Alberta

Dr. Marja Verhoef
University of Calgary
Calgary, Alberta

Dr. Ollie Triska
University of Alberta
Edmonton, Alberta

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Institute for Health Economics
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Ms. Kelly Deis
University of Alberta
Edmonton, Alberta

Ms. Sandra Doze
Crossroads Regional Health Authority
Wetaskiwin, Alberta

Ms. Tanya Ewashko
Calgary Health Region
Calgary, Alberta

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Health Canada
Edmonton, Alberta

Dr. Donna Manca
Alberta Family Practice Research Network
Edmonton, Alberta

Dr. Kerrie Pain
Foothills Medical Centre
Calgary, Alberta

Dr. Patricia Reay
University of Alberta
Edmonton, Alberta

Ms. Brenda Waye-Perry
Alberta Health and Wellness
Edmonton, Alberta

SEARCH Faculty Committee

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Dr. Sheila Evans
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Calgary, Alberta

Dr. Gordon Fick
University of Calgary
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Dr. Karen Golden-Biddle
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Dr. Robert Hayward
University of Alberta
Edmonton, Alberta

Ms. Sharon Matthias
Matthias Inc.
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Dr. Patricia Reay
University of Alberta
Edmonton, Alberta

Dr. Alan Shiell
University of Calgary
Calgary, Alberta

Dr. Donna Smith
University of Alberta
Edmonton, Alberta

Dr. Marja Verhoef
University of Calgary
Calgary, Alberta

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Dr. Jeanne Besner
Calgary Health Region
Calgary, Alberta

Dr. Ann Casebeer
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High River, Alberta

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RHA #5
Drumheller, Alberta

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Matthias Inc.
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University of Calgary
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Capital Health Region
Edmonton, Alberta

Ms. Brenda Waye-Perry*
Alberta Health and Wellness
Edmonton, Alberta

DR. MANUEL HULLIGER investigates the relationship between sensory feedback and movement. Stroke patients often make an impressive recovery, not because nerves have been repaired, but rather by using residual sensory clues, such as the information conveyed from skin, joints and muscles. Therapies for patients with nerve damage could be developed to capitalize on this innate ability.

Passionate about improving the mental health of women, DR. KATHY HEGADOREN has a particular interest in depression. This condition affects twice as many women as men, for reasons that remain elusive. Dr. Hegadoren theorizes that the answer may reside in hormone interactions and an early history of interpersonal trauma that occurred prior to depression.

Provincial, National and International Awards

Won by AHFMR-supported researchers and trainees from 1999-2002*

University of Alberta medical student SHELBY HAQUE completed a 12-week AHFMR Media Fellowship in 2001. Working with the media is an excellent opportunity for scientists to inform the public about new research, but first Shelby says "we need to translate our research into something the average reader can understand."

Dr. Todd Anderson

Top 40 under 40 award in Canada for his innovative approach to cardiovascular medical education and research

Watanabe Distinguished Achievement Award for Overall Excellence

Dr. Chris Bleackley

The Robert L. Noble Prize

International Research Scholar, Howard Hughes Medical Institute

Member of the Royal Society of Canada

Dr. Alastair Buchan

Smith Distinguished Achievement Award for Outstanding Contributions by Senior Faculty Members

Dr. Joe Casey

J.A.F. Stevenson Young Investigator Award of the Canadian Physiological Society (2002)

Prof. Tim Caulfield

Martha Piper Research Prize in Law (2000)

Dr. Ming Chan

Herbert Jasper Prize, Canadian Society of Clinical Neurophysiologists (1999)

Dr. Dele Davies

Watanabe Distinguished Achievement Award for Overall Excellence

Dr. Sandy Davidge

Martha Piper Research Prize for Science (2002)

Dr. Jim Dunn

Petro-Canada Young Innovator Award in Community Health Sciences (2002)

Dr. John Elliott

Teacher of the Year Award, Faculty of Medicine and Dentistry

ASTech Outstanding Leadership Award in Alberta Science (2000)

Dr. Cy Frank

Smith Distinguished Achievement Award for Outstanding Contributions by Senior Faculty Members

Dr. William Ghali

Cochrane Distinguished Achievement Award for Excellence in Research

Dr. Gregg Goss

Petro-Canada Young Innovator Award (2002)

Dr. Royston Greenwood

U of A Killam Annual Professorship

Dr. Bob Hinings

J. Gordin Kaplan Award for Excellence in Research, Strategic Management and Organization

Islet Transplant Team: Drs. James Shapiro, Norm Kneteman, Garth Warnock, Greg Korbutt, Jonathan Lakey, John Elliott

ASTech Outstanding Leadership Award in Alberta Science

Dr. Stefan Judex

Young Investigator Award, American Society for Bone and Mineral Research

John Haddad Young Investigator Award

Dr. Tim Kieffer

Career Development Award Juvenile Diabetes Research Foundation International

Dr. Norman Kneteman

ASTech Outstanding Leadership Award in Alberta Science

2000 Smart City Award

Economic Development Edmonton Chairman's Award

Salute to Excellence Award of Distinction, City of Edmonton

Canadian Diabetes Association Outstanding Achievement Award

Dr. Gregory Korbutt

Chairman's Award of Excellence, Economic Development Edmonton (2001)

Smart City Award (2000)

ASTech Outstanding Leadership Award in Alberta Science (2000)

Popular Science Magazine "Best of What's New Award" in Medical Technology

Dr. Paul Kubes

Smith Distinguished Achievement Award for Outstanding Contributions by Senior Faculty Members

Dr. Jonathan Lakey

ASTech Outstanding Leadership Award in Alberta Science (2000)

Dr. Karen Madsen

Canadian Society of Clinical Investigators Joe Doupe Young Investigator Award (2000)

Dr. Sumit Majumdar

National Cholesterol Outcomes Research Excellence (CORE) Award (1999)

Society of General Internal Medicine Health Services Research Mentorship Award (2000)

Postgraduate (resident) Teacher of the Year Award (2002)

Undergraduate (medical student) Teacher of the Year Award (2002)

Dr. Walter Maksymowych

Outstanding Volunteer Award from the Arthritis Society

Dr. Finlay McAlister

Canadian Society of Internal Medicine Young Investigator Award (1999)

Postgraduate teacher of the year award, University of Alberta (2001)

Dr. Marek Michalak

AstraZeneca & CFBS Award in Molecular Biology (1999)

Dr. Evengelos Michelakis

Canadian Cardiovascular Society Young Investigator of the Year Award

Dr. Paul Mobit

Petro-Canada Young Innovator Award (2001)

Dr. Jan Morse

Outstanding Achievement in Research Award, International Institute of Human Understanding (2001)

Nicki Ottenbreit

Ralph Steinhauer Award of Distinction

Dr. Scott Patten

Petro-Canada Young Innovator Award in Community Health

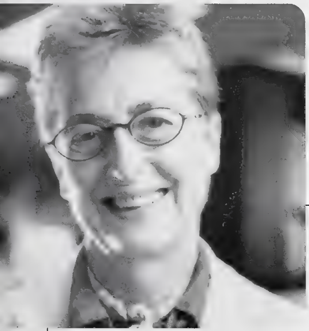
Dr. Chris Power

Cochrane Distinguished Achievement of Excellence in Research

Royal College Medal in Medicine

Dr. Marek Radomski

McCalla Award Recipient



One of DR. DIANE TAYLOR'S major research interests is the bacteria Helicobacter pylori, which can cause stomach ulcers. Standard ulcer therapy involves treatment with two antibiotics to kill the bacteria, but resistance to one antibiotic is rising. Dr. Taylor's work on the molecular biology of certain H. pylori strains may result in new strategies to combat the bacteria.

Dr. Kim Raine

Martha Piper Research Prize for Science (2001)

Dr. Bruce Rannala

Peter Lougheed CIHR New Investigator Award (2002)

Dr. Derrick Rancourt

Young Scientist Award, Genetics Society of Canada (1999)

AstraZeneca Award, Canadian Federation of Biological Sciences (2000)

Hunter Petroleum Young Innovator Award (2001)

Dr. Rangaraj Rangayyan

Institute of Electrical and Electronic Engineers Third Millennium Medal (2000)

Dr. Linda Reha-Krantz

YWCA of Edmonton 2000 Tribute to Women of Distinction Award in Science & Technology

Dr. Karl Riabowol

President's Circle Award for Excellence in Research

Dr. Stephen Robbins

Watanabe Distinguished Achievement Award for Overall Excellence

Dr. Pere Santamaria

Canadian Diabetes Association, Great West and London Life Young Scientist Award (2000)

Cochrane Distinguished Achievement Award for Excellence in Research (2001)

Dr. Richard Schulz

Merck Frosst Award, Pharmaceutical Society of Canada (1999)

Ms. Shannon Scott-Findlay

Andrew M. Stewart Memorial Graduate Prize for Excellence in Research (2002)

Dr. James Shapiro

ASTech Outstanding Leadership Award in Alberta Science (2000)

Dr. Keith Sharkey

Smith Distinguished Achievement Award for Outstanding Contributions by Senior Faculty Members

Janssen Award for Gastroenterology Research (2002)

Dr. Mike Surette

Canadian Society of Microbiologists, Fisher Award (2000)

Dr. Diane Taylor

Killam Annual Professorship (2001)

Dr. Peter Tieleman

Hunter Petroleum Young Innovator Award

Dr. Dennis Vance

Simon Pierre Noel Lectureship Award, Canadian Lipoprotein Conference (2000)

Dr. John Wallace

President's Circle Award for Excellence in Research (2001)

Dr. Michael Walter

Cogan Award of the Association for Research on Vision and Ophthalmology (2002)

Dr. Garth Warnock

W.A. Shandra Award for Teaching Excellence in Clinical Surgery (1999 & 2000)

ASTech Outstanding Leadership Award in Alberta Science (2000)

Millions of cells in the human body perform a constant "search and repair" operation to keep us healthy and protected against disease. DR. SUSAN LEES-MILLER is interested in two enzymes whose actions are key to detecting and repairing DNA. Better understanding of how they work could lead to selective cancer treatments that cause fewer side effects.

Dr. V. Wee Yong

Cochrane Distinguished Achievement Award for Excellence in Research

Ho-Am Award in Medical Science

Multiple Sclerosis Society of Canada 2000 National Certificate of Merit, Member Award

Dr. Gerald Zamponi

Cochrane Distinguished Achievement Award (2002)

Watanabe Distinguished Achievement Award (2001)

Merck Frosst Young Investigator Award, Canadian Society for Pharmacology (2000)

* Awards are honours above and beyond endowed chairs or personnel and funding awards received from any agency or organization. All listings are provided by researchers and are edited by AHFMR according to these guidelines.

AHFMR Personnel Awards*

*Currently implemented as of March 31, 2002

Adolescence is the major risk period for initiation into alcohol, tobacco and most illegal drugs. DR. BRENDA MUNRO and a team of researchers are trying to identify which adolescents are vulnerable and why, and use this information to design programs to effectively reach these children.

Population Health Investigators

Brown, Lesley A., PhD
Faculty of Arts & Sciences, Department of Kinesiology & Physical Education
University of Lethbridge
Identifying Risk Factors for Falling: Is Fear of Falling Beneficial or Detrimental to Stability?

Caulfield, Timothy A., LLM
Faculty of Law, Health Law Institute
University of Alberta
Legal Issues in the Allocation and Utilization of Genetic Services: Regulation of the "Genetech" Industry

Currie, Gillian, PhD
Faculty of Social Sciences, Department of Economics
University of Calgary
Further Explorations of the Validity of Contingent Valuation as a Measure of Individual's Health Care Preferences and of Community Preferences for Health Care Priorities

Estabrooks, Carole A., PhD
Faculty of Nursing, University of Alberta
The Determinants of Research Utilization in an Acute Clinical Setting

Ghali, William A., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Evaluation of Hospital Mortality and Complication Rates after Coronary Artery Bypass Surgery in Western Canada

Hegadoren, Kathleen M., PhD
Faculty of Nursing, University of Alberta
Depression and Stress Adaptation in Women: Etiological and Treatment-Response Factors

Hilsden, Robert J., MD, PhD
Faculty of Medicine, Department of Medicine
University of Calgary
Gastrointestinal Endoscopy in Alberta: Regional Variations and Resources

Johnson, Jeffrey A., PhD
Faculty of Medicine & Dentistry, Department of Public Health Sciences
University of Alberta
Clinical Interpretability And Usefulness Of Generic Health-Related Quality Of Life Measures: Applications In Stroke, Congestive Heart Failure And Diabetes

Lu, Mingshan, PhD
Faculty of Social Sciences, Department of Economics
University of Calgary
Incentives & Accountability in Publicly-Funded Health Care: The Case of Mental Health and Substance Abuse Treatment

Majumdar, Sumit R., MD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Improving Secondary Prevention in Patients with Fractures And Osteoporosis - A Prospective Controlled Trial of Quality Improvement

Maxwell, Colleen J., PhD
Faculty of Medicine, Department of Community Health Sciences
University of Calgary
A Randomized Trial of an Integrated Assessment and Care Plan Approach for Home Care Among a Post-Acute Elderly Sample

McAlister, Finlay A., MD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Studies to Enhance the Application of Efficacious Therapies in Cardiovascular Disease

McGregor, S. Elizabeth, PhD
Alberta Cancer Board, Department of Epidemiology, Prevention & Screening
Alberta Cancer Board
Design and Evaluation of a Shared Decision Making Aid for Men Considering Prostate Cancer Screening

Meadows, Lynn M., PhD
Faculty of Medicine, Department of Family Medicine
University of Calgary
Linking Experiences of Health to Population

Patten, Scott B., MD, PhD
Faculty of Medicine, Department of Community Health Sciences
University of Calgary
Depression: Epidemiology and Prevention

The Heritage Youth Researcher Summer (HYRS) Program offers exceptional high school students from across Alberta hands-on research experience at a university, introducing them to the research world. BENJAMIN HUI was one of 30 students selected for the program in 2000. He is now a student at Harvard.

Plotnikoff, Ronald C., PhD
Faculty of Physical Education & Recreation, University of Alberta
A Randomized Controlled Trial of Worksite Physical Activity Interventions in Alberta

Rosychuk, Rhonda J., PhD
Faculty of Medicine & Dentistry, Department of Pediatrics
University of Alberta
Approaches for Detecting Disease Clusters and Assessing Recurrent Diseases with Repeated Flawed Tests

Smythe, James G., PhD
Faculty of Arts, Department of Economics
University of Alberta
The Relationship Between Workers' Control over their Working Hours and Their Health

Wild, T. Cameron, PhD
Faculty of Medicine & Dentistry, Department of Public Health Sciences
University of Alberta
Motivating Change Among Problem Drinkers

Clinical Investigators

Chan, K. Ming, MD
Faculty of Medicine & Dentistry, Department of Physical Med & Rehabilitation (Division)
University of Alberta
Quantification and Treatment of Fatigue in Post-Polio Patients

Coupland, Nicholas J., MD
Faculty of Medicine & Dentistry, Department of Psychiatry
University of Alberta
In Vivo Brain GABA and Glutamate in Mood and Anxiety Disorders

Demchuk, Andrew M., MD
Faculty of Medicine, Department of Clinical Neurosciences
University of Calgary
Developing Applications for Transcranial Doppler to Improve Treatment of Acute Stroke

Exner, Derek V., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Risk Estimation Following Infarction, NonInvasive Evaluation (REFINE)

Gainer, Anita L., MD, PhD
Faculty of Medicine & Dentistry, Department of Surgery
University of Alberta
The Induction of Specific Anti-Tumor Immunity against Gliomas using CpG Adjuvants and Immunogene Therapy

Hao, Chunhai (Charlie), MD, PhD
Faculty of Medicine & Dentistry, Department of Laboratory Medicine & Pathology
University of Alberta
Activation of Glioma and Microglia Th1 Cytokine Pathways to Enhance Anti-Glioma Immunity

Hildebrand, Kevin A., MD
Faculty of Medicine, Department of Surgery
University of Calgary
Post-Traumatic Joint Contractures: Molecular Mechanisms and Development of an Animal Model

Lam, Ernest Wing Ngai, DDS
Faculty of Medicine & Dentistry, Department of Dentistry
University of Alberta
Nitric Oxide Release from Smokeless Tobacco Xenobiotics

Le Melledo, Jean-Michel, MD
Faculty of Medicine & Dentistry, Department of Psychiatry
University of Alberta
GABA-A/Benzodiazepine Receptor Function in Women with Premenstrual Dysphoric Disorder

Michelakis, Evangelos D., MD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Oxygen Sensing in Chronic Hypoxic Pulmonary Hypertension - Evidence for a Redox Based Oxygen Sensor

Muruve, Daniel A., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Biology of Chemokine Expression in Adenoviral Gene Therapy

Robertson, Marli A., MD
Faculty of Medicine, Department of Pediatrics
University of Calgary
Cellular Responses of Intestinal Crypt Cells to Growth Factors and Secretory Stimuli

Salo, Paul T., MD
Faculty of Medicine, Department of Surgery
University of Calgary
Neurovascular Mechanisms in Ligament Injury and Repair

DR. V. WEE YONG is an expert on drugs used to treat multiple sclerosis. Dr. Yong and his colleagues are using their knowledge to unravel what is happening in the disease, and they are working on developing a combination therapy to add to current treatments for multiple sclerosis.

Biochemist DR. CHRIS BLEACKLEY, a Howard Hughes International Research Scholar, won international recognition by identifying how cancer cells avoid the immune system. Dr. Bleackley and his team identified exactly how the immune system mounts an attack on harmful cells, and why this doesn't work with cancer cells. The discovery opens a new avenue in the battle against cancer.

Shapiro, A. M. James, MD
Faculty of Medicine & Dentistry, Department of Surgery
University of Alberta
Experimental and Clinical Islet Transplantation for Autoimmune Type I Diabetes, with Development of Novel Tolerance Induction Protocols for Permanent Graft Function

Tibbles, Lee Anne, MD
Faculty of Medicine, Department of Medicine
University of Calgary
The Role of Stress Responsive Kinases in Endothelial Adhesion

Tibbo, Philip G., MD
Faculty of Medicine & Dentistry, Department of Psychiatry
University of Alberta
Magnetic Resonance Spectroscopy (MRS) and Cognitive Assessment in Individuals at Risk for Schizophrenia

Vliagoftis, Harissios, MD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Inter-Cellular Interactions in Asthma: Mast Cell Mediators Regulate Epithelial Cell-Eosinophil Interactions

Wanke, Irene E., MD, PhD
Faculty of Medicine, Department of Medicine
University of Calgary
Hepatic Gene Expression in Diabetes Mellitus

Winston, Brent W., MD
Faculty of Medicine, Department of Medicine
University of Calgary
The Regulation of IGF-1 Gene Transcription and its Potential Role in Fibrotic Lung Disease

DR. VALERIE KIRK studies sleep apnea in children, hardly the group usually associated with apnea. But sleep apnea affects about three per cent of children, disturbing learning and affecting health. Dr. Kirk is working to ensure that children are properly diagnosed in a child-friendly setting, so that apnea can be treated and children can get the sleep they need.

Scholars

Andrew, Susan E., PhD
Faculty of Medicine & Dentistry, Department of Medical Genetics
University of Alberta
Mouse Models Of Genomic Instability

Bains, Jaideep S., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Synaptic Circuitry Coordinating Neuroendocrine and Autonomic Output

Barry, Michele M., PhD
Faculty of Medicine & Dentistry, Department of Medical Microbiology & Immunology
University of Alberta
Poxvirus Anti-Apoptotic Strategies

Beattie, Tara L., PhD
Faculty of Medicine, Department of Biochemistry & Molecular Biology
University of Calgary
Structure and Function of Telomerase

Beaulieu, Christian, PhD
Faculty of Medicine & Dentistry, Department of Biomedical Engineering
University of Alberta
Magnetic Resonance Investigation of Cerebrovascular Disease

Braun, Andrew P., PhD
Faculty of Medicine, Department of Pharmacology & Therapeutics
University of Calgary
Molecular Analysis of Ca2+ - Activated K+ Channel Structure and Function

Braun, Janice E., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Protein - Protein Interactions Associated with Synaptic Transmission

Bray, Robert C., MD
Faculty of Medicine, Department of Surgery
University of Calgary
Vascular and Mechanical Adaptations after Surgery

Brook, William J., PhD
Faculty of Medicine,
Department of Biochemistry
and Molecular Biology
University of Calgary
Molecular Mechanisms of Limb Development

Brown, Christopher B., MD
Faculty of Medicine,
Department of Medicine
University of Calgary
Complexes and Complexities: Studies of the Receptor for the Hematopoietic Cytokine GM-CSF

Burshtyn, Deborah N., PhD
Faculty of Medicine &
Dentistry, Department
of Medical Microbiology
& Immunology
University of Alberta
Inhibitory Receptors of the Immune System

Cassidy, J. David, PhD
Faculty of Medicine &
Dentistry, Department
of Public Health Sciences
University of Alberta
Prognosis in Whiplash-Associated Disorders (WAD)

Chen, Xing-Zhen, PhD
Faculty of Medicine &
Dentistry, Department
of Physiology
University of Alberta
Structure-Function Studies of Polycystic Kidney Disease Proteins

Childs, Sarah J., PhD
Faculty of Medicine,
Department of Biochemistry
& Molecular Biology
University of Calgary
Blood Vessel Development in Zebrafish

Colbourne, Frederick, PhD
Faculty of Science,
Department of Psychology
University of Alberta
Efficacy of Prolonged Hypothermia after Focal Cerebral Ischemia

Cook, Linda S., PhD
Faculty of Medicine,
Department of Community
Health Sciences
University of Calgary
Teleomere Length in the Peripheral Immune System and Colorectal Cancer

Coorssen, Jens R., PhD
Faculty of Medicine,
Department of Physiology
& Biophysics
University of Calgary
Identifying Membrane Constituents Essential to Ca2+ - Triggered Exocytosis

Davies, H. Dele, MD
Faculty of Medicine,
Department of Microbiology
& Infectious Diseases
University of Calgary
Streptococcus Agalactiae Surface in Immunogenic Protein (Sip) Antibody Related Studies in Women and Infants

DeVinney, Rebekah, PhD
Faculty of Medicine,
Department of Microbiology
& Infectious Diseases
University of Calgary
Molecular Mechanisms of Pedestal Formation by Enterohemorrhagic Escherichia Coli

Dunn, James R., PhD
Faculty of Medicine,
Department of Community
Health Sciences
University of Calgary
Geographies of the Social Production of Health Inequalities

Dyck, Jason R., PhD
Faculty of Medicine &
Dentistry, Department
of Pediatrics
University of Alberta
The Role of Fatty Acyl CoA Synthetase in the Regulation of Fatty Acid Uptake in the Heart

Francis, Gordon A., MD
Faculty of Medicine & Dentistry,
Department of Medicine
University of Alberta
Novel Therapeutic Strategies in Atherosclerosis: HDL-Mediated Cellular Cholesterol Efflux

Frayne, Richard, PhD
Faculty of Medicine,
Department of Clinical
Neurosciences
University of Calgary
Endovascular MR System for Stroke Therapy

Glerum, D. Moira, PhD
Faculty of Medicine &
Dentistry, Department
of Medical Genetics
University of Alberta
Synthesis and Assembly of Cytochrome Oxidase

Glover, J. N. Mark, PhD
Faculty of Medicine &
Dentistry, Department
of Biochemistry
University of Alberta
The Structure Basis of the Association and Nucleic Acid Binding of Transcription Factor Complexes

Gorassini, Monica A., PhD
Faculty of Medicine &
Dentistry, Department of
Biomedical Engineering
University of Alberta
Recovery of Locomotor Function Following Spinal Cord Injury

Hasan, Shabih U., MD
Faculty of Medicine,
Department of Pediatrics
University of Calgary
Control of Breathing During Perinatal Period

Hazes, Bart, PhD
Faculty of Medicine &
Dentistry, Department
of Medical Microbiology
& Immunology
University of Alberta
Structural Studies of Disease-Associated Proteins

Hendzel, Michael J., PhD
Faculty of Medicine &
Dentistry, Department
of Oncology
University of Alberta
Subnuclear Targeting in the Regulation of the CBP Histone Acetyltransferase

Sufferers of inflammatory bowel disease (IBD) may find relief in the research of DR. WALLACE MACNAUGHTON. His lab is studying the mechanisms that may be responsible for IBD. Dr. MacNaughton's team is also developing medication to treat the pain of IBD, with fewer damaging side effects than drugs currently available.

DR. PAUL HASSELBACK and DR. CHRIS ARMSTRONG-ESTHER (not shown) are conducting one of the largest studies of formal home care and informal caregiving in Alberta. With much of the government policy on care for the elderly based on informal caregivers such as family and friends, the study will provide crucial information for managers of home care.

Heslip, Timothy R., PhD
Faculty of Medicine, Department of Biochemistry and Molecular Biology
University of Calgary
In Vivo Role Of Proteoglycans and Glycosaminoglycans in Growth Factor Signalling

Kavanagh, Katherine M., MD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
The Importance of Alterations in the Passive Properties of Myocardial Conduction

Kieffer, Timothy J., PhD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Leptin Regulation of Beta-Cell Function and Glucose Homeostasis

Kleim, Jeffrey A., PhD
Faculty of Arts & Sciences, Department of Psychology & Neuroscience
University of Lethbridge
Neural Mechanisms Underlying Recovery from Stroke

Korbutt, Gregory S., PhD
Faculty of Medicine & Dentistry, Department of Surgery
University of Alberta
Neonatal Porcine Islet Grafts for Human Transplantation: Promoting In Vitro Growth and Co-transplantation with Sertoli Cells

Kumar, Rakesh, PhD
Faculty of Medicine & Dentistry, Department of Medical Microbiology & Immunology
University of Alberta
Design and Evaluation of Novel Antiviral Agents for Human Immunodeficiency Virus and Herpes Virus Infections

Lakey, Jonathan R., PhD
Faculty of Medicine & Dentistry, Department of Surgery
University of Alberta
Novel Approaches to Preparation and Cryopreservation of Human Islets for Transplantation

Lee, Ki-Young, PhD
Faculty of Medicine, Department of Cell Biology & Anatomy
University of Calgary
Regulation of Neuronal Cdc2-Like Kinase and its Role in Brain Pathology

Lehner, Richard, PhD
Faculty of Medicine & Dentistry, Department of Pediatrics
University of Alberta
Triacylglycerol Synthesis

Light, Peter E., PhD
Faculty of Medicine & Dentistry, Department of Pharmacology
University of Alberta
Cardiac Katp Channels: Novel Mechanisms of Regulation and Cardioprotection

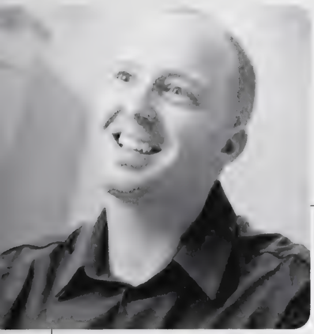
Logan, C. Cairine, PhD
Faculty of Medicine, Department of Cell Biology & Anatomy
University of Calgary
Molecular Mechanisms of Hindbrain Sensory Nervous System Development

Lu, YouMing, PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Calcineurin Regulation of GABA A Receptors in Synaptic Plasticity

MacMillan, Andrew M., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Mechanistic Investigations of RNA Processing Reactions

MacNaughton, Wallace K., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Mechanisms of Acute Radiation-Induced Intestinal Dysfunction

A healthcare needs assessment tool for the elderly is being evaluated by DR. COLLEEN MAXWELL. The Resident Assessment Instrument for Home Care links clinical data with drug data, providing for the first time in Canada a reliable way of assessing prescription and non-prescription drug use by the elderly. This standardized assessment will help to better determine community-based healthcare needs.



The goal of DR. PHIL TIBBO'S research is to improve the chances of identifying young people with schizophrenia before their illness causes them serious problems. "These kids don't just wake up one day when they're 19 and become schizophrenic," he says. His research involves brain imaging and specialized tests to better define the predictors of schizophrenia.

Madsen, Karen L., PhD
Faculty of Medicine & Dentistry,
Department of Medicine
University of Alberta
The Role of Bacteria in Modulating Intestinal Permeability and Inflammation in the IL-10 Gene Deficient Mouse

Magor, Katharine E., PhD
Faculty of Science,
Department of
Biological Sciences
University of Alberta
The MHC Class I Genes of the Duck: Polymorphism and Modulation by Viruses

Maksymowych, Wolodymyr P., MD
Faculty of Medicine & Dentistry,
Department of Medicine
University of Alberta
Antigen Processing Genes in Ankylosing Spondylitis

McFarlane, Sarah, PhD
Faculty of Medicine,
Department of Cell Biology
& Anatomy
University of Calgary
Molecular Mechanisms of Visual System Development

Mitchell, J. Ross, PhD
Faculty of Medicine,
Department of Radiology
University of Calgary
Multi-Spectral Analysis of MS Patient MR Data

Mody, Christopher H., MD
Faculty of Medicine,
Department of Microbiology
& Infectious Diseases
University of Calgary
The Immune Response to Cryptococcus Neoformans in AIDS

Moore, Ronald B., MD, PhD
Faculty of Medicine &
Dentistry, Department
of Surgery
University of Alberta
Photodynamic Therapy (PDT) of Urological Malignancies

Mosimann, Steven C., PhD
Faculty of Arts & Sciences,
Department of Chemistry
& Biochemistry
University of Lethbridge
Structure & Function of Messenger RNA Processing Enzymes and Associated Components in Bacteria

Nguyen, Peter V., PhD
Faculty of Medicine & Dentistry,
Department of Physiology
University of Alberta
Age-Dependent Determinants of Memory Function and Synaptic Plasticity

Patel, Kamala D., PhD
Faculty of Medicine,
Department of Physiology
& Biophysics
University of Calgary
Molecular Mechanims of Eosinophil Rolling

Phipps, Barry M., PhD
Faculty of Science,
Department of
Biological Sciences
University of Calgary
Structure-Based Mechanisms of Cytosolic Chaperonins and Virulence-Associated Surface Proteins

Posse de Chaves, Elena I., PhD
Faculty of Medicine &
Dentistry, Department
of Pharmacology
University of Alberta
Regulation of Neuronal Survival and Axonal Growth Sphingolipids

Poulin, Marc J., PhD
Faculty of Medicine,
Department of Physiology
& Biophysics
University of Calgary
Mechanisms Regulating Cerebral Blood Flow in Young and Aged Humans

Power, Christopher N., MD
Faculty of Medicine,
Department of Clinical
Neurosciences
University of Calgary
Molecular Neuropathogenesis of HIV Infection: GP 120 and Tat Mediated Neurovirulence

Putman, Charles T., PhD
Faculty of Physical Education
& Recreation, Department
of University of Alberta
Influence of Cellular Energetics on Myosin Heavy Chain Expressin in Skeletal Muscle

Raine, Kim D., PhD
Faculty of Agriculture, Forestry
& Home Economics, Department
of Agriculture, Food &
Nutritional Sciences
University of Alberta
An Ecological Perspective on Capacity Building for Population Health

Raivio, Tracy L., PhD
Faculty of Science, Department
of Biological Sciences
University of Alberta
Regulation of Virulence Factor Assembly by the Cpx Envelope Stress Response of Escherichia Coli

Rancourt, Derrick E., PhD
Faculty of Medicine,
Department of Oncology
University of Calgary
Novel Serine Proteinases in Mammalian Implantation: Investigating Function and Therapeutics

The well-being of mid-life women is the focus of DR. LYNN MEADOWS' research. While health is part of well-being, it also includes emotional, spiritual, cultural, and sometimes financial components. Her work fills a gap in understanding because existing research on middle-aged women's health has almost exclusively focussed on reproductive health.

DR. BIN HUANG is leading the team at Cytovax Biotechnologies Inc., as the Edmonton company develops a new drug for fighting bacterial infections. The product is Cytovaxine™, a drug that blocks the interaction between bacteria and their host, offering hope in treating antibiotic resistant infections. Cytovaxine is in Phase 1 clinical trials.

Rannala, Bruce H., PhD
Faculty of Medicine & Dentistry, Department of Medical Genetics
University of Alberta
Novel Statistical Approaches for Studying Complex Genetic Diseases

Schuurmans, Carol J., PhD
Faculty of Medicine, Department of Biochemistry & Molecular Biology
University of Calgary
Neurogenins and the Specification of Neuronal Identity in the Cerebral Cortex

Shanner, Laura J., PhD
Faculty of Medicine & Dentistry, Department of Public Health Sciences
University of Alberta
Ethics, Law and Policy of Reproduction: Promoting the Health of Women and Children

Silverstone, Peter H., MD
Faculty of Medicine & Dentistry, Department of Psychiatry
University of Alberta
The Effects of Mood Stabilizers on the Phosphoinositol Cycle in Bipolar Disorder

Spyracopoulos, Leonidas, PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Structural Studies of Smooth Muscle Regulation

Stuart, David T., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Control of DNA Replication and Genome Stability During Gametogenesis

Surette, Michael G., PhD
Faculty of Medicine, Department of Microbiology & Infectious Diseases
University of Calgary
Biochemistry and Physiology of Signal Transduction in Bacteria

Swain, Mark G., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Fatigue in Experimental Cholestasis

Tieleman, D. Peter, PhD
Faculty of Science, Department of Biological Sciences
University of Calgary
Computational Studies of Biological Membranes

Underhill, Darrell A., PhD
Faculty of Medicine & Dentistry, Department of Medical Genetics
University of Alberta
Genetic and Biochemical Analyses of the Transcription Factor Pax3

von der Weid, Pierre-Yves, PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Molecular Basis of Lymphatic Pumping: Modulation by the Endothelium, Vessel Filling and Inflammation

Wang, Zhixiang, PhD
Faculty of Medicine & Dentistry, Department of Cell Biology
University of Alberta
Regulation of EGF Receptor Endocytosis by Signaling Proteins

Welsh, Donald G., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Mechanisms of Pyrimidine Induced Vasoconstriction

Wevrick, Rachel, PhD
Faculty of Medicine & Dentistry, Department of Medical Genetics
University of Alberta
Organization and Regulation of Imprinted Genes on Proximal Human Chromosome 15

Wilman, Alan H., PhD
Faculty of Medicine & Dentistry, Department of Biomedical Engineering
University of Alberta
Detection of Vascular Pathology with Transient 3D Magnetic Resonance Angiography

Zamponi, Gerald W., PhD
Faculty of Medicine, Department of Pharmacology & Therapeutics
University of Calgary
Molecular Determinants of Calcium Channel Pharmacology

Zimmerly, Steven J., PhD
Faculty of Science, Department of Biological Sciences
University of Calgary
Characterization of a Reverse Transcriptase Encoded by a Group II Intron

Senior Scholars

Agellon, Luis B., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Regulation of Plasma and Bile Lipid Homeostasis

Bennett, David J., PhD
Faculty of Rehabilitation Medicine, Division of Neuroscience
University of Alberta
Neuronal Plasticity Following Chronic Spinal Cord Injury

Berthiaume, Luc G., PhD
Faculty of Medicine & Dentistry, Department of Cell Biology
University of Alberta
The Role of Protein Palmitoylation in Subcellular Localization & Metabolic Regulation

Buchan, Alastair M., MD
Faculty of Medicine, Department of Clinical Neurosciences
University of Calgary
Neuroprotective Efficacy of BDNF and GDNF In Vivo: A Molecular Characterization

Casey, Joseph R., PhD
Faculty of Medicine & Dentistry, Department of Physiology
University of Alberta
Molecular Physiology of Bicarbonate Transport

Chen, Sui R. (Wayne), PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Structure, Function and Regulation of Ryanodine Receptors

Cole, William C., PhD
Faculty of Medicine, Department of Pharmacology & Therapeutics
University of Calgary
Structure/Function Relations of Voltage-Gated K+ Channels in Vascular Smooth Muscle

Cross, James C., DVM, PhD
Faculty of Medicine, Department of Biochemistry & Molecular Biology
University of Calgary
Molecular Control of Early Mammalian Development

Davidge, Sandra T., PhD
Faculty of Medicine & Dentistry, Department of Obstetrics & Gynaecology
University of Alberta
Sex Steroids and Vascular Function

Deans, Julie P., PhD
Faculty of Medicine, Department of Biochemistry and Molecular Biology
University of Calgary
Investigation Into the Role of Lipid Microdomains in B Cell Receptor Signalling and CD20 Function

Donaldson, Cameron, PhD
Faculty of Medicine, Department of Community Health Sciences
University of Calgary
Creation of Health Economics Programme of Research at the University of Calgary

Duszyk, Marek, PhD
Faculty of Medicine & Dentistry, Department of Physiology
University of Alberta
Regulation of Human Airway Epithelial Ion Channels by Nitric Oxide

Health economist DR. JAMES SMYTHE is investigating two trends that allow flexibility in organizing work and home lives: telecommuting and flex-time. His interest is in the social and economic costs of telecommuting, part of a larger study on flexible work schedules. The three-year project examines whether workers on flex-time are healthier than other workers.

Gillis, Anne M., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Spatial and Temporal Heterogeneity of Repolarization in Hypertrophy and Congestive Heart Failure

Greer, John J., PhD
Faculty of Medicine & Dentistry, Department of Physiology
University of Alberta
Diaphragm-Phrenic Nerve Development and the Pathogenesis of Congenital Diaphragmatic Hernia (CDH)

Hawe, Penelope, PhD
Faculty of Medicine, Department of Community Health Sciences
University of Calgary
Strengthening Community Interventions through Context-Level Understandings of Health

Ho, May, MD
Faculty of Medicine, Department of Microbiology & Infectious Diseases
University of Calgary
Molecular Mechanisms of Cytoadherence In Malaria

Hobman, Tom C., PhD
Faculty of Medicine & Dentistry, Department of Cell Biology
University of Alberta
Project 1: Role of the Capsid Protein in Rubella Virus Replication Project 2: Characterization of GERp95 and Related Proteins

Kargacin, Gary J., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Regulation of Smooth and Cardiac Muscle Contraction

Molecular genetic processes that control the formation of the placenta and the heart are often implicated in cases of miscarriage or embryo death. DR. JAMES CROSS is investigating these earliest states of embryo development. He is looking at how cells differentiate, how some cells replicate their DNA without cell division, and how specialized cell types come together to form organs.

Oral cancer is an often disfiguring disease currently treated with radiation and surgery, with a cure rate of only about 50%. DR. ERNIE LAM'S goal is to develop new, more effective treatments. He is investigating various approaches including gene therapy to modulate the levels of free radicals in tumours.

Kneteman, Norman M., MD
Faculty of Medicine & Dentistry, Department of Surgery
University of Alberta
Clinical Trial of Islet Transplantation in Type I Diabetes with Developmental Studies on Immunosuppression & Tolerance Development.

Lee, Samuel S., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Cirrhotic Cardiomyopathy: Its Causes and Consequences

Lees-Miller, Susan P., PhD
Faculty of Medicine, Department of Biochemistry and Molecular Biology
University of Calgary
DNA Dependent Protein Kinase in DNA Repair, Viral Infection and Apoptosis

Loutzenhiser, Rodger D., PhD
Faculty of Medicine, Department of Pharmacology & Therapeutics
University of Calgary
Vasomotor Mechanisms of Renal Afferent and Efferent Arterioles

Lytton, Jonathan, PhD
Faculty of Medicine, Department of Biochemistry & Molecular Biology
University of Calgary
Molecular Physiology of Sodium-Channel Exchange

Meddings, Jonathan B., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Intestinal Permeability and Inflammatory Bowel Disease

Melancon, Paul R., PhD
Faculty of Medicine & Dentistry, Department of Cell Biology
University of Alberta
Regulation of ARF-Dependent Assembly of Coat Proteins

DR. JOHN REMMERS has devoted much of his career to understanding sleep disorders and developing devices to diagnose and treat them. One of his inventions is a patented device for treating sleep apnea, a potentially life-threatening condition that interrupts breathing during sleep. Another is a portable sleep recorder made for home use which has just received regulatory approval from the FDA and will soon be in clinical trials.

Moqbel, Redwan, PhD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Intracellular Mechanisms Regulating Exocytes and Mediator Release in Human Eosinophils

Morse, Janice M., PhD
Faculty of Nursing, University of Alberta
Delineating Processes of Comforting

Olson, David M., PhD
Faculty of Medicine & Dentistry, Department of Obstetrics & Gynaecology
University of Alberta
Eicosanoids in Perinatology

Robbins, Stephen M., PhD
Faculty of Medicine, Department of Oncology
University of Calgary
A Role for Caveolae in Compartmentalized Signalling

Santamaria, Pere, PhD
Faculty of Medicine, Department of Microbiology & Infectious Diseases
University of Calgary
T-Cell Tolerance Versus Genetic Resistance to Spontaneous Autoimmune Diabetes

Schultz, Michael C., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Molecular Regulation of Transcription and Chromatin Assembly in Yeast

Schulz, Richard, PhD
Faculty of Medicine & Dentistry, Department of Pediatrics
University of Alberta
Physiological and Pathophysiological Roles of Nitric Oxide and Peroxynitrite in the Heart

Shibuya, Ellen K., PhD
Faculty of Medicine & Dentistry, Department of Cell Biology
University of Alberta
Signal Transduction and Cell Cycle Reentry in Oocytes

Shiell, Alan M., MSc
Faculty of Medicine, Department of Community Health Sciences
University of Calgary
The Economics of Public Health: Capturing the Value of Health Promotion

Smith, Francine G., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Are Renal Effects of Nitric Oxide Developmentally Regulated?

Spencer, Charlotte A., PhD
Faculty of Medicine & Dentistry, Department of Oncology
University of Alberta
RNA Polymerase II Transcription Regulation During HSV-1 Infection and Mitosis

Babies harmed before birth by their pregnant mothers drinking alcohol start life slower than healthy infants – and they never catch up. DR. ROBERT SUTHERLAND is investigating the systems in the fetal brain that are permanently blunted by relatively low doses of alcohol. His research is helping shed light on the biggest preventable cause of retardation and cognitive impairment in Canada.

Stone, James C., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Molecular Genetic Dissection of the RAS Signaling Pathway

Syed, Naweed I., PhD
Faculty of Medicine, Department of Cell Biology & Anatomy
University of Calgary
Cellular and Molecular Mechanisms Underlying Target Cell Selection and Specific Synapse Formation in a Model System

Tredget, Edward E., MD
Faculty of Medicine & Dentistry, Department of Surgery
University of Alberta
Molecular Basis of Fibroproliferative Disorders of the Skin: Role of Transforming Growth Factor-Beta and Th1 / Th2 Lymphokines

Tse, Amy M., PhD
Faculty of Medicine & Dentistry, Department of Pharmacology
University of Alberta
Neuroendocrine Control of Stress and Reproductive Hormone Secretion

Most sleep disorders must be diagnosed in a hospital sleep lab, a very expensive overnight procedure. But maybe not for long, thanks to DR. JOHN REMMERS (pictured on previous page), ERIC HAJDUK and DR. RON PLATT. Their company, Calgary-based SagaTech Inc., is manufacturing the SnoreSat™ Sleep Recorder, which allows a patient to be tested at home for a fraction of the cost.

Tse, Frederick W., PhD
Faculty of Medicine & Dentistry, Department of Pharmacology
University of Alberta
Molecular Mechanism of Exocytosis

Turner, Raymond W., PhD
Faculty of Medicine, Department of Cell Biology & Anatomy
University of Calgary
Soma-Dendritic Interactions in Oscillatory Discharge

Vize, Peter D., PhD
Faculty of Science, Department of Biological Sciences
University of Calgary
Developmental Models of Organogenesis and Tumourigenesis

Walter, Michael A., PhD
Faculty of Medicine & Dentistry, Department of Ophthalmology
University of Alberta
Identification of the Molecular Basis of Iridogoniodysgenesis Anomaly

Woodman, Richard C., MD
Faculty of Medicine, Department of Medicine
University of Calgary
The Role of CD43 in Leukocyte Recruitment

Wozniak, Richard W., PhD
Faculty of Medicine & Dentistry, Department of Cell Biology
University of Alberta
Molecular Dynamics of Transport Through the Nuclear Pore Complex

Yong, Voon Wee, PhD
Faculty of Medicine, Department of Clinical Neurosciences
University of Calgary
Mechanisms of Process Extension and Myelin Formation by Oligodendrocytes

A great supervisor and a two-year AHFMR studentship were enough to "clinch the deal" for southern Ontario native LINDSAY BRIDGLAND. After meeting with University of Alberta geneticist Dr. Heather McDermid, Bridgland chose to do her master's degree in Dr. McDermid's lab. The department she is in is one of Canada's few medical genetics departments.

Young, Dallan B., PhD
Faculty of Medicine,
Department of Biochemistry
& Molecular Biology
University of Calgary
Investigation of Conserved Mechanisms in Yeasts & Mammals

Zochodne, Douglas W., PhD
Faculty of Medicine,
Department of Clinical
Neurosciences
University of Calgary
Does Diabetes Mellitus Target Ganglion Neurons?

Scientists

Ballanyi, Klaus, PhD
Faculty of Medicine &
Dentistry, Department
of Physiology
University of Alberta
Nervous Control of Perinatal Breathing

Bleackley, R. Christopher, PhD
Faculty of Medicine &
Dentistry, Department
of Biochemistry
University of Alberta
Cytotoxic T Lymphocyte Induced Cell Death

Brindley, David N., PhD
Faculty of Medicine &
Dentistry, Department
of Biochemistry
University of Alberta
Signal Transduction by Bioactive Lipids

Bulloch, Andrew G., PhD
Faculty of Medicine,
Department of Physiology
& Biophysics
University of Calgary
Molecular and Cellular Analysis of Neuronal Plasticity

Campenot, Robert B., PhD
Faculty of Medicine &
Dentistry, Department
of Cell Biology
University of Alberta
Regulation of Growth and Development of Rat Sympathetic Neurons In Vitro

Colmers, William F., PhD
Faculty of Medicine &
Dentistry, Department
of Pharmacology
University of Alberta
Neuromodulation in CNS

Duff, Henry J., MD
Faculty of Medicine,
Department of Medicine
University of Calgary
Regulation of Expression of the Ether-a-go-go Potassium Channel

Eggermont, Jos J., PhD
Faculty of Medicine,
Department of Physiology
& Biophysics
University of Calgary
Representation of Complex Sound in Normal and Reorganized Auditory Cortex of the Cat

Elliott, John F., MD, PhD
Faculty of Medicine &
Dentistry, Department of
Medical Microbiology &
Immunology
University of Alberta
DQ Transgenic Mice and MHC Class II Tetramers: Tools to Characterize Human T Cell Responses in Autoimmune Diabetes

Fliegel, Larry, PhD
Faculty of Medicine &
Dentistry, Department
of Biochemistry
University of Alberta
Regulation and Characterization of the NA+/H+ Exchanger

French, Robert J., PhD
Faculty of Medicine,
Department of Physiology
& Biophysics
University of Calgary
Structure, Function and Regulation of Ion Channels

Fujita, Donald J., PhD
Faculty of Medicine,
Department of Biochemistry
and Molecular Biology
University of Calgary
Src-Family Kinases: Function, Regulation and Involvement in Cancers

Gordon, Tessa T., PhD
Faculty of Medicine &
Dentistry, Department
of Pharmacology
University of Alberta
Functional Recovery after Central and Peripheral Nerve Injuries.

For his work on brain development and regeneration, DR. NAWEED SYED'S preferred research subjects are snails. They have also provided a rare opportunity to observe exactly how mercury affects healthy brain cells. Dr. Syed found that snail neurons break down when exposed to a mercury concentration typically present in the urine of a person with about eight amalgam tooth fillings.

Gravel, Roy, PhD
Faculty of Medicine, Department of Biochemistry and Molecular Biology
University of Calgary
Molecular Genetics of Pediatric Neurodegenerative and Metabolic Diseases

Holmes, Charles F., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Molecular Enzymology of Protein Phosphatase-1. Regulation by Molecular Toxins and Inhibitor Proteins

Hulliger, Manuel, PhD
Faculty of Medicine, Department of Clinical Neurosciences
University of Calgary
Studies in Motor Control

Kane, Kevin P., PhD
Faculty of Medicine & Dentistry, Department of Medical Microbiology & Immunology
University of Alberta
The Immunobiology of Class I MHC Molecules

Kubes, Paul, PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Role of iNOS in Inflammatory Disease

Lopaschuk, Gary D., PhD
Faculty of Medicine & Dentistry, Department of Pediatrics
University of Alberta
Energy Substrate Metabolism in the Ischemic and Non-Ischemic Heart

MacVicar, Brian A., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Synaptic and Non-Synaptic Control of Neuronal Excitability

Mains, Paul E., PhD
Faculty of Medicine, Department of Biochemistry and Molecular Biology
University of Calgary
Genetic and Molecular Analysis of C. Elegans Development

McGhee, James D., PhD
Faculty of Medicine, Department of Biochemistry and Molecular Biology
University of Calgary
Development of the Digestive Tract of the Nematode Caenorhabditis Elegans

Michalak, Marek, PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Calreticulin and Endoplasmic Reticulum Signaling

Ostergaard, Hanne L., PhD
Faculty of Medicine & Dentistry, Department of Medical Microbiology & Immunology
University of Alberta
Regulation of Adhesion and Membrane-Proximal Signaling Events During T Cell Activation

Pittman, Quentin J., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Studies on Neurohypophysial Peptides in the Nervous System

Prochazka, Arthur, PhD
Faculty of Medicine & Dentistry, Department of Physiology
University of Alberta
Sensory Control of Movement

Rabinovitch, Alexander, MD
Faculty of Medicine & Dentistry, Department of Medicine
University of Alberta
Immunopathogenesis and Immunopathology of Type 1 Diabetes

Reha-Krantz, Linda J., PhD
Faculty of Science, Department of Biological Sciences
University of Alberta
Mutational and Biochemical Studies of DNA Polymerases

Remmers, John E., MD
Faculty of Medicine, Department of Medicine
University of Calgary
Neural Mechanisms Controlling Breathing

Riabowol, Karl T., PhD
Faculty of Medicine, Department of Biochemistry & Molecular Biology
University of Calgary
Function of a Novel Candidate Tumor Suppressor in Cell Growth and Death

Schnetkamp, Paul P., PhD
Faculty of Medicine, Department of Physiology & Biophysics
University of Calgary
Physiological Genomics of the Na/Ca-K Exchanger Gene Family

Schryvers, Anthony B., MD, PhD
Faculty of Medicine, Department of Microbiology & Infectious Diseases
University of Calgary
Transferrin Receptor-Mediated Iron Acquisition in Pathogenic Bacteria

Cancer biologist DR. TARA BEATTIE is investigating the enzyme telomerase, which helps regulate cell division and proliferation. Few adult cells contain telomerase activity, but it is very active in cancer cells. By inhibiting telomerase, it might be possible to halt tumour growth. The medical implications are huge, since telomerase is active in at least 85% of cancers.

PhD student CAROL SCOVIL uses computer simulation to study normal and pathological walking patterns. This growing area of research is called gait analysis. While it is still largely considered basic research, surgeons are beginning to use gait analysis as a diagnostic tool.

Schurch, F. Samuel, PhD
Faculty of Medicine,
Department of Physiology & Biophysics
University of Calgary
Structure-Function Relations of Alveolar and Airway Surfactant

Sharkey, Keith A., PhD
Faculty of Medicine,
Department of Physiology & Biophysics
University of Calgary
The Enteric Nervous System in Intestinal Inflammation

Sutherland, Robert J., PhD
Faculty of Arts & Sciences,
Department of Psychology & Neuroscience
University of Lethbridge
Prenatal Alcohol Effects on the Adult Cortical Physiology and Cognition

Taylor, Diane E., PhD
Faculty of Medicine & Dentistry, Department of Medical Microbiology & Immunology
University of Alberta
Genetic Studies of Bacterial Plasmids, Antibiotic Resistance and Helicobacter Pylori

ter Keurs, Henk E., MD, PhD
Faculty of Medicine,
Department of Medicine
University of Calgary
Cardiac Muscle Function in Normal and Diseased Heart

Tyberg, John V., MD, PhD
Faculty of Medicine,
Department of Medicine
University of Calgary
Cardiac, Pulmonary, and Vascular Determinants of Left Ventricular Filling

Vance, Dennis E., PhD
Faculty of Medicine & Dentistry, Department of Biochemistry
University of Alberta
Phosphatidylcholine Metabolism & Function

Vogel, Hans J., PhD
Faculty of Science,
Department of Biological Sciences
University of Calgary
Regulator Calcium-Binding Proteins and Novel Antibiotic Targets

Wallace, John L., PhD
Faculty of Medicine,
Department of Pharmacology & Therapeutics
University of Calgary
NSAID-Induced Gastroenteropathy: Pathogenesis and Prevention

Walsh, Michael P., PhD
Faculty of Medicine,
Department of Biochemistry and Molecular Biology
University of Calgary
Regulation of Smooth Muscle Contraction by Protein Kinase C and the Thin Filament-Associated Protein, Calponin

Weiss, Samuel, PhD
Faculty of Medicine,
Department of Cell Biology & Anatomy
University of Calgary
Neurogenesis by Central Nervous System Stem Cells

Wong, Norman C. W., PhD
Faculty of Medicine,
Department of Medicine
University of Calgary
Regulation of Apolipoprotein AI Gene Expression

Yoon, Ji-Won, PhD
Faculty of Medicine,
Department of Microbiology & Infectious Diseases
University of Calgary
Cellular & Molecular Pathogenic Mechanisms of Type I Diabetes and its Possible Intervention

Young, James D., PhD
Faculty of Medicine & Dentistry, Department of Physiology
University of Alberta
Molecular and Functional Studies of Nucleoside, Amino Acid and Other Membrane Transport Proteins

DR. WILLIAM GHALI'S work is challenging the notion that women do not have the same access to cardiac services as men. Using a data collection tool to examine information on cardiac patients in Alberta, he found that once clinical differences between men and women are accounted for, there is no bias in the care they receive.

Consolidated Financial Statements

March 31, 2002

Consolidated Statement of Financial Position 38

Consolidated Statement of Operations 39

*Full audited consolidated financial statements are available from AHFMR. Please call us at (780) 423-5727, or e-mail us at postmaster@ahfmr.ab.ca, or write us at: AHFMR, Suite 1500, 10104-103 Avenue, Edmonton, Alberta, T5J 4A7, for a copy mailed to you free of charge.

Consolidated Statement of Financial Position

FOR THE YEAR ENDED MARCH 31, 2002
(THOUSANDS OF DOLLARS)

	2002	2001
ASSETS		
CURRENT		
CASH	$ 9,805	$ 6,135
RESTRICTED CASH	–	1,688
ACCOUNTS RECEIVABLE	160	142
ADVANCES AND PREPAID EXPENSES	106	100
	10,071	8,065
LONG TERM		
PROPERTY, PLANT AND EQUIPMENT	769	501
TOTAL ASSETS	$ 10,840	$ 8,566
LIABILITIES AND NET ASSETS		
CURRENT		
ACCOUNTS PAYABLE AND ACCRUED LIABILITIES	$ 4,269	$ 2,547
DEFERRED LEASE INDUCEMENT	–	3
DEFERRED CONTRIBUTIONS	5,654	5,242
	9,923	7,792
LONG TERM		
ACCRUED RETIREMENT ALLOWANCE	356	267
ACCRUED BENEFIT LIABILITY	175	36
	531	303
TOTAL LIABILITIES	$ 10,454	$ 8,095
NET ASSETS	386	471
	$ 10,840	$ 8,566

Consolidated Statement of Operations

FOR THE YEAR ENDED MARCH 31, 2002
(THOUSANDS OF DOLLARS)

	2002	2001
REVENUES		
TRANSFERS FROM ENDOWMENT FUND	$ 55,000	$ 49,000
HEALTH RESEARCH COLLABORATION PROGRAM	2,688	2,548
MEDICAL INNOVATION PROGRAM	1,832	1,269
DONATIONS	5	1
INTEREST	478	444
RECOVERIES ON TECHNOLOGY COMMERCIALIZATION	19	157
	60,022	53,419
EXPENSES		
GRANTS AND AWARDS		
PERSONNEL	35,635	28,277
TRAINING	6,980	6,668
TECHNOLOGY COMMERCIALIZATION	2,328	992
APPLIED HEALTH RESEARCH	1,565	1,253
OTHER	7,498	10,426
	54,006	47,616
PROGRAM DELIVERY		
HYRS PROGRAM	58	50
TECHNOLOGY COMMERCIALIZATION	115	113
HEALTH TECHNOLOGY ASSESSMENT	257	199
APPLIED HEALTH RESEARCH PROGRAMS	945	577
	1,375	939
PROGRAM OPERATIONS		
PEER REVIEW	846	711
HUMAN RESOURCES	2,396	2,209
COMMUNICATIONS AND EDUCATION	412	319
IMPACT ANALYSIS	19	-
	3,673	3,239
ADMINISTRATION		
OFFICE SERVICES	574	480
INFORMATION SERVICES	81	152
GOVERNANCE AND PLANNING	176	206
AMORTIZATION OF PROPERTY, PLANT AND EQUIPMENT	222	182
	1,053	1,020
	60,107	52,814
(DEFICENCY) EXCESS OF REVENUES OVER EXPENSES	$ (85)	$ 605

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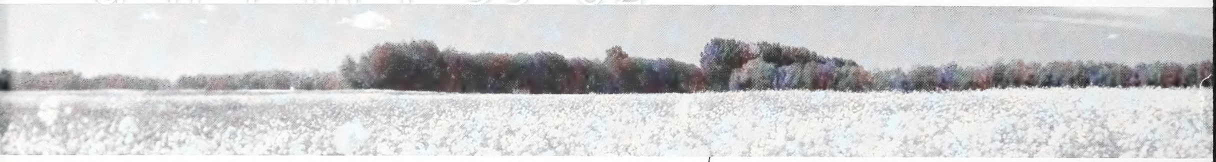

For information, contact:

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E-MAIL: postmaster@ahfmr.ab.ca
WEB SITE: http//www.ahfmr.ab.ca

*Full consolidated financial statements are available from AHFMR. Please call us at (780) 423-5727, or e-mail us at postmaster@ahfmr.ab.ca, or write us at: AHFMR, Suite 1500, 10104-103 Avenue, Edmonton, Alberta, T5J 4A7, for a copy mailed to you free of charge.

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ALBERTA HERITAGE FOUNDATION
FOR MEDICAL RESEARCH